INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

 A four-page report on the Kalinin Centrifugal Pump Factory in Moscow, containing a description of the plant layout, function, and procedure, with very little detail on the product. A two-page report on the city of Stalino, Ukrainian SSR, containing a brief 	OUNTRY				S-E-C-R-I	7e1		LUUCE33	ING COPY	25X
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description of the city accompanied by a sketch of the city and a legend identifying 20 locations.		Leni	ngrad Co uchments: A four-p taining	age report	n Engineering Ir t on the Kalinir	nstitute n Centrifugal P	ump Fac	tory in Mos	scow. con-	_
 A three-page report on the Leningrad Construction Engineering Institute, containing information on the organization, curriculum, and some of the personalities of the Institute. 		Atta	ngrad Co achments: A four-p taining very lit A two-pa descript	age report a description the detail	t on the Kalining tion of the plant on the product on the city of e city accompani	a Centrifugal P at layout, func	tump Faction, au	tory in Mos	scow, con- re, with	25X ⁻
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The factory was located in Moscow on SELIAMKA No. 13, Oblast of MOSCOW - RAYON KIROVSKI, a well-known factory in existence before the Revolution, then known under its founder's name _______ It was under the jurisdiction of the Ministry of Machine Construction.

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Installations:

Two large, brick two-story buildings, each approximately 200 x 50 meters laid out as follows:

First Building: The first floor contained the standard-parts shop, a warehouse and the pump-assembly shop.

On the second floor were the following shops: a foundry and three machine shops which produced small medium and large size parts for the centrifugal pumps.

Second Building: First floor - On the first floor were the casting models warehouse, the shipping stock warehouse and packing sections, the factory dining room and the factory electric shop.

Second floor - The carpentry shop was on the second floor.

Third Building: This was the foundry and was considered a separate building, although it was connected with the other two buildings mentioned above.

Fourth Building: This was a two-story brick building 100 x 40 meters, about 100 meters from the above-mentioned buildings used as a center for recreational, cultural, union, and political activities. It contained the following:

First floor - Consisted of an auditorium and entrance hall. The auditorium was used for plays, meetings and speeches.

Second floor:- Contained six rooms used for the following activities: sports, recreation, KOMSOMOL, Union and party functions, editorial office for the factory's newspaper (called "KALININESH"), and a library with technical and cultural books.

Fifth Building: At the factory entrance there was another three-story building where the administrative offices were located. The building was laid out in the following manner:

First floor - On the first floor were the Records and Cashier Section, the office of the Chief of Records with his assistants and the office of the Personnel Manager.

Second floor - Offices of the Factory Director and the Factory Manager.

Third floor - Technical section, Bookkeeping Office, Personnel Office and the Office of the Chief of Technical Control.

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Several wooden buildings located in the front of the shop buildings described above, were used for storing pump and electrical parts. Pump parts were received from other unidentified factories.
The following were the factory shops or sections and their respective functions:
Foundry - Consisted of two 2-ton furnaces which made iron castings of pump parts of various sizes assembled in other shops in accordance with the master factory plan. The iron was submitted to a temperature of 1,200 degrees. 25X1 This was regulated by an apparatus called a "BRENEL" through which an
almost optimum degree of casting was obtained.
Standard Small-Parts Machine Shop - Contained the following machinery: a small forge, about 10 lathes, a milling machine and a cutter. This shop made standard type screws, nuts, washers and all the necessary standard parts for the pumps.
Small-Parts Machine Shop - The majority of the 17 lathes in this shop were "horizontal", two or three were turret-type. Other machines were a rectifier for Soviet make axles, two radial and one conventional drills, a "Seping" planer and one small, old, boring mill There were two small-size Soviet make milling machines (one horizontal and one vertical), and a small power press for making bearings and other parts. This shop made parts for the small size pumps.
The Middle-Size Parts Shop - This shop contained about 15 lathes (turret and parallel) of Soviet make, and two milling machines (one 25X1 vertical, one horizontal) of Soviet make from the Krasni Proletari factory, two 25X1 planers (one vertical, the other a horizontal "Seping", two Soviet radial drills, a small drill of foreign make a boring mill which was used for fitting the two parts of the pump housing. There was a drilling machine which made a part (a sort of hey) which was placed in the parts to affix them to the axle and keep it from rotating. This shop made the upper and lower pump housings, axles, impellors, caps, axle-linings, ball bearing casings, couplings, stuffing boxes, valve clamps and stuffing nuts.
The Large-Size Parts Shop - There were ten lathes, three vertical lathes and seven from the Soviet "Krasni Proletari" factory. The two milling machines, (one vertical and one horizontal) were of Soviet make. Two big planers
There was a small "Seping" planer. There were two radial Soviet-make drills, a small drill and an axle grinder. This shop made the large size parts for the centrifugal pumps.
Transportation Section:
The factory had available for transportation six 1½-ton Zis trucks plus three extra trailers used in hauling iron to the foundry. On the 20th of each month, the Zis trucks transported about 500 pumps from the factory to the railroad station in accordance with the Ministry of Machine Construction plan. The pumps were hauled from shop to shop within the factory by five or six mechanically worked "Autocars". Women workers known as (Raspredielitiel) collected and distributed the parts.
Warehouses:
Warehouse for wooden models - The wooden models made at the carpentry shop were kept here and delivered to the foundry when needed.
General warehouse - The pumps were stored here until they were shipped out of the factory. Electric motors for some of the pumps which were received on orders from the Ministry of Electricity were also stored here.

Purchasing Department - purchased the necessary supply of materials and parts.

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Electric Motors for Pumps:

Electric motors for pumps came from an unidentified factory. These motors were fitted in the pumps in the machine shops. The kilowatt power varied according to the size of the pumps - - the largest motor had about a 20 kw. potentiality.

Carpentry Shop:

Made the wood models of parts cast in the foundry and the boxes in which the pumps were packed for shipping.

Assembly and Packing Shop:

This shop was connected physically with the machine shop. The centrifugal pumps were assembled here, metal trade-mark plates bearing the name of the "Kalinin" factory were attached, and the pumps were sent to the warehouse for packing in the above-mentioned wooden boxes.

Power used in the plant:

Electric power, regulated by a transformer, was used exclusively for the automatic operation of the factory. The electrical installations were serviced by the electrical shop. The fuel used in the factory was coke from the mines in the Moscow region. The number of deliveries and quantities received was unknown. Its quality was excellent and there was always a reserve.

Water Supply:

The water supply came from the regular city supply.

Production:

The factory produced monthly about 500 centrifugal pumps of various sizes. The pumps weighed from 50 to 500 kilos.

Factory Management's Function: The administrations function was to prepare the operational plans for production, suggestions for increasing and bettering production, control of technological processes and general advice. In the quality control section the parts were checked and the results analyzed.

Production:

Interchange of Factory Methods Plan:

As a rule more pumps were produced than estimated in the annual production schedule due to good organization, better pay for the workers, and political propaganda. A big factor in the increase of production was the Interchange of Factory Methods Plan, established by the Ministry of Machine Construction a few years ago, whose activities have been intensified recently. This plan provided for an interchange among the various factories of ideas and programs for study: (Plans could also be initiated by a factory itself and these projects had to be submitted to the Ministry every three months.)

7.0	deliver a Factory-Methods
Plan and observe the KRASNI-EXCAVATOR factory which i	made excavating machinery.
invention of a lathe operator named SIMINS	KI. This invention increased
the work output of the parallel lathes 400%. It was	a copy machine and the
cutting knives for the metal worked mechanically. Si	IMINSKI's book 25X1
called "My Working Experiences" inc	cluded this invention as
well as others. The plans for the invention were sen	nt to the KALININ factory
Factory Security - An engineer was in charge of the	Fechnical Security Service.

Factory Security - An engineer was in charge of the Technical Security Service. This man, personally and frequently inspected all factory installations, the machinery and personnel activities. He took care of anything that was out of order. The replacement parts for machines, especially the lathes were sent from the KRASNI PROLETARI.

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Guards were posted at both factory entrances and	another guarded the inside	
of the Factory. They were not factory-nired gua	ras	25X1
They wore blue pants and 1	ackets, no bauges or navs,	25X1
and were armed with a revolver or pistol. These the momings and goings of the workers. Admittan	ce to the factory was prohi-	
hated to all mercone not properly authorized. A	II bersonner asea one engrance	25 X 1
and had to progent their factory card. The motor	AGUIGIOS OBOT THE OWEL	23/1
entrance. There was a permanent group of fireme	n made up of a representative	25X1
of each shop. they were the choice of the nead of the Technica	remen were chosen	20/(1
group had only small fire extinguishers to work	with, so their job was to	
control the fire until the regular fire departme	nt could get there.	
The Factory Newspaper:		
The "KALININESH" Newspaper - a one page edition	which came out once a week. The)
Chief Editor who chose the articles to be publis	SUGG MAS MUSSIAM HITS GOSTS AND	
	within the lactory. The	
Communist Party Line was put in all the articles labor and social topics. It was printed outside	, especially those dealing with	
presses of a Communist Youth newspaper.	the ractory possible agent the	
Personnel and Working Conditions:		
The factory employed a total of 3,000 persons in	ncluding its technical, adminis-	
the personnel departs	nent made time-motion studies of	
the manuscripts to be and dealt with wave problems	Inere was a live-and-a-nam	~_
day work week with three shifts - an eight hour noon and night shift. There was a one-hour lunc	th period for the morning shift	•
and a fifteen minute break for the afternoon and	i night shifts. Norkers could	
take their vacations at any time of year and the	By received thom is so see mays	
depending on their rank and the type of work the	ey did.	
An engineer by the name of RUVANOV, a Soviet Cor of the factory.		
The Chief Engineer KOLIVANOV of the factory and	the Head Engineer of the Techni-	_
TALLY WALLINGKY WORD PLO COMMUNIST PARTY	members. Stirring was ret-	
sonnel Manager and the Partog (Party Secretary) sentative or Proforg was a woman called GROMOVA	The Casting Engineer. Jose	
Comog was a Spaniard. The Chief of the Techni	cal control section was antonov,	
The Chief of Product	ion was a Jewish Engineer called	25X1
BEVMA.		
In the Technological Section	there were about	25X1
ton nearly including the Chief Engineer and his	engineering and technical	
Assistants of both sexes. There were four or f Control and Administrative Departments.	ive Economic Experts in the	
Difficulties:		
Once in a while there wasn't enough raw materia	I on hand, which meant that a	
job could not be finished on schedule. General was ahead of the Production Schedule.	ly, however, the work output	
Production Estimates:		
The factory plans for the future showed a const The present five-year plan showed a 15% increase vious plan estimate.	ant increase in production. e in production over the pre-	
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ATTACHMENT #2 to

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2. ECONOMIC and SOCIOLOGICAL ASPECTS

All types of merchandise and clothing of good quality was available in Stalino and food was always plentiful. However, fresh vegetables and fruit were scarce and a black market for farm products flourished. Prices ranged from 5 to 10% above the price set by the government. Prices on all merchandise decreased approximately 5% in 1953 and 1954, but in 1956 they were up to where they were previously and appeared to be exceeding the normal prices.

Stalino was not a cultural city and lacked educational
institutions. The only school of importance was the School of
Mines (Russian name unknown) located on Armemaskaya Ulitsa
The city boasted of only

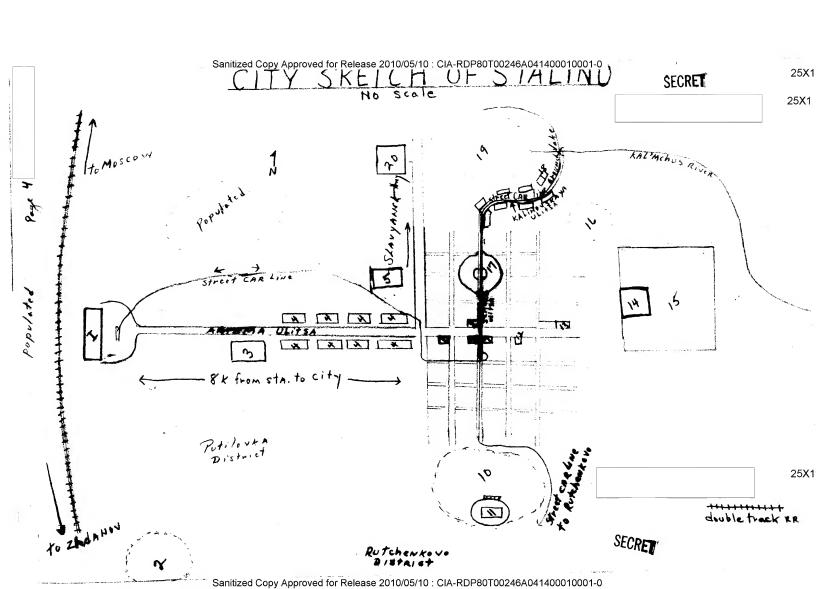
one daily local newspaper, the Sots Donbass (COU AOHBACC).

There was only one small church in Stalino and very few practised any religion. People appeared to be content with the government and there were never any manifestations against the government.

There was one large sanitarium and hospital located on the highway to Slavyansk and a clinic located on Armemaskaya Ulitsa.

20. City Sanitorium or Hospital.

19. Lake.



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ATTACHMENT #3 to

The Leningrad Engineering Construction Institute (REMMHPPAACKMN AMMEHEPHO-CTPONTEALHUM MHCTUTYT) eningradskiy	GENERAL	-1-
was located on EGOROVA FLITSA ETOPOSA VNNUA), Leningrad, and had a student body of approximately 500 students. The school was divided into the following departments or faculties: Architecture Civil Engineering Civil Construction Industrial Sanitation (water supply, heating, ventilation) The school year which began in September and ended in late May, was divided into two semesters. Semester examinations were administered in January and May with a two week vacation in January. Classes were seld six days weekly, and class subjects were of two-hour duration with ten minute break between hours. A stipend of 200 to 500 rubles month- y was provided for every student. Generally the foreign student was paid 500 rubles monthly and did not vary from year o year. School dormitories were provided and the student was assessed O rubles monthly for his room. The school did not operate on a shift basis", but late afternoon classes were offered for those em- loyed during the daytime. URRICULUM Every student enrolled in the engineering school followed the same urriculum for the first three years. Courses for the next two years of the five year course, were assigned on the basis of the students'	The Leningra	d Engineering Construction Institute (NEHNHIPAACKNN
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25X1

The following curriculum was offered the first three years:

Fi	rs	t	Ye	ar

Mathematics

Chemistry

Physics

Geodesy

Descriptive Geometry

Physical Culture

Artistic Design

Basis of Marxism

Lineal Design

Second Year

Mathematics

Material Resistance

Physics

Statics

Geodesy

Reinforced Cement

Hydraulics

Wood Construction

Communication System 5

Metal Construction

Physical Culture

Basis of Marxism

Third Year

Mathematics

Road Construction

Bridges

Construction materials

Material Resistance

Hydraulics

Thermodynamics

Static S

Automobile Mechanics

Construction Machines

Construction techniques

Welding

Metallurgy

Physical Culture

The professor did not assign any homework, but each subject required more than an hour of home study. The amount of home study was left to the individual to determine.

25X1

There were no Vyssheye Uchebnoye Zavedenije

(VUZ) or specialities offered in the Soviet Union

25X1

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	_ 3 -	25X1
3.	VUZ EVALUATION	
	In general, students considered themselves	
	adequately prepared for VUZ training when they applied for entry	
	in the engineering school. They evaluated their VUZ education as	
	not tough and the curriculum offered sufficient specialization but	
	not too much. It also offered thechnical and practical training.	
	The material equipment of VUZ was considered adequate, and the	
	instructors were well informed in their subjects. They were good	
	teachers, substantially well qualified and able to get their points	
	across to the students.	25X1
	A sound approach to unfamiliar problems	
	was always encouraged by VUZ courses to a high degree.	25X1
4.	SCHOOL PERSONALITIES	
-+ •		25X1
	the engineering school:	
	BALYAN (5 A J 9 H) - Professor of Thermodynamics	
	RYNDIN (PHANH)- Professor of Descriptive Geometry	
	OSTANKIN (OCTAHKNH) - Professor on Bridge Construction	
	KOKOVIN (KOKOBNH) - Professor on Highway Construction	
	BORYSOV (50 P 6 COB) - Professor on Highway Construction	
	RAYZER (PAN3 EP) - Professor of Geodesy	
	TORDANOV(TOPAAHOS) - Professor of Statics	
	GORODTSOV([OPDA 408) - Professor on Tunnel Construction	
	2	25X1
	SECRET	